

C L A I M S

1. An assembling device for a
2 plastic-lens-forming casting mold characterized by
3 comprising
4 a gasket clamping mechanism which clamps a
5 casting gasket from an axial direction thereof,
6 a first mold push-in mechanism which pushes
7 one mold fitted in one open end of said casting gasket
8 into said casting gasket, and
9 a second mold push-in mechanism which pushes
10 the other mold fitted in the other open end of said
11 casting gasket into said casting gasket to oppose said
12 one mold at a predetermined gap.

2. An assembling device for a
2 plastic-lens-forming casting mold according to claim 1,
3 characterized in that said gasket clamping mechanism and
4 second mold push-in mechanism are disposed to be able to
5 relatively come close to and separate from each other.

3. An assembling device for a
2 plastic-lens-forming casting mold according to claim 1,
3 characterized in that
4 said gasket clamping mechanism includes first
5 and second clamping means which oppose each other and is
6 disposed such that at least one of said first and second
7 clamping means is able to come close to and separate
8 from the other to clamp said casting gasket from the

9 axial direction, and a clamping driving unit which
10 drives at least one of said first and second clamping
11 means, and
12 said casting gasket is set on said second
13 clamping means while said molds are fitted in two open
14 ends of said gasket, and said second clamping means has
15 a fitting groove which fits on a peripheral portion of
16 the other mold which is pushed in by said second mold
17 push-in mechanism.

4. An assembling device for a
2 plastic-lens-forming casting mold according to claim 3,
3 characterized in that

4 said gasket clamping mechanism includes two
5 opposing plates which are disposed to be slidable along
6 a guide post,

7 one of said two plates includes first clamping
8 means and a clamping driving unit which moves said one
9 plate along said guide post to urge said first clamping
10 means against one open end face of said casting gasket,
11 and

12 the other one of said two plates includes
13 detachable second clamping means and a gasket-moving
14 driving unit which integrally moves said two plates
15 toward said second mold push-in mechanism along said
16 guide post while said first and second clamping means
17 clamp said casting gasket.

5. An assembling device for a

2 plastic-lens-forming casting mold according to claim 3,
3 characterized in that

4 said first mold push-in mechanism includes a
5 mold push-in member which is reciprocally fitted and
6 inserted in said first clamping means, and a mold
7 push-in driving unit which urges said mold push-in
8 member against a corresponding one of said molds, and
9 said second mold push-in mechanism includes a
10 plurality of push pins which are biased in enlarging
11 directions to abut against an inner surface of said
12 second clamping means.

6. An assembling device for a
2 plastic-lens-forming casting mold according to claim 5,
3 characterized in that said push pins are disposed such
4 that heights thereof are adjustable.

7. An assembling device for a
2 plastic-lens-forming casting mold according to claim 1,
3 characterized by further comprising a mold push-moving
4 amount adjusting mechanism which adjusts a mold
5 push-moving amount of said second mold push-in mechanism.

8. An assembling device for a
2 plastic-lens-forming casting mold according to claim 7,
3 characterized in that said mold push-moving amount
4 adjusting mechanism includes a spline shaft, an
5 adjusting driving unit which rotates said spline shaft,
6 an adjusting screw which is slidably spline-coupled to
7 said spline shaft, a stationary nut which threadably

8 engages with said adjusting screw, and a stopper which
9 is provided to said gasket clamping mechanism to limit
10 movement of said adjusting screw.

9. An assembling method for a
2 plastic-lens-forming casting mold characterized by
3 comprising
4 the step of fitting and temporarily fixing a
5 pair of molds in two open ends of a casting gasket
6 integrally having a positioning projection projecting
7 from an inner surface of the casting gasket such that
8 lens-forming optical surfaces of the pair of molds come
9 inside,
10 the step of clamping the casting gasket by a
11 pair of clamping means from an axial direction,
12 the first mold push-in step of pushing one of
13 the pair of molds into the gasket by first push-in means
14 to urge the mold against the projection, and
15 the second mold push-in step of pushing the
16 other mold into the gasket by second push-in means for a
17 predetermined amount.

10. An assembling method for a
2 plastic-lens-forming casting mold according to claim 10,
3 characterized in that the second mold push-in step
4 includes the step of pressing a peripheral portion of a
5 surface of the other mold which is opposite to a
6 lens-forming optical surface by using, as the second
7 push-in means, a plurality of pins which are biased in

8 enlarging directions.

11. An assembling method for a
2 plastic-lens-forming casting mold according to claim 10,
3 characterized in that the step of pressing the
4 peripheral portion of the surface of the other mold
5 which is opposite to the lens-forming optical surface
6 includes the step of providing the plurality of pins
7 such that heights thereof are adjustable individually
8 and independently of each other.

12. An assembling method for a
2 plastic-lens-forming casting mold according to claim 9,
3 characterized in that the second mold push-in step
4 includes the step of pressing a flat surface which is
5 formed on an outer peripheral portion of a concave
6 surface of the other mold.

13. An assembling method for a
2 plastic-lens-forming casting mold according to claim 9,
3 characterized by further comprising the step of setting
4 a push-moving amount of the second push-in means for the
5 other mold to match a type of a lens.